

What is claimed is:

[Claim 1]

An electronic circuit according to the invention comprising:

a first substrate including a first coil that is formed by wiring on a substrate; and

a second substrate including a second coil that is formed by wiring on a substrate at a position corresponding to said first coil, and is inductively coupled to said first coil.

[Claim 2]

The electronic circuit according to Claim 1, wherein said first substrate further includes a transmitter circuit for outputting signals to said first coil when transmission digital data changes.

[Claim 3]

The electronic circuit according to Claim 1 or 2, wherein said second substrate further includes a receiver circuit that connects both ends of said second coil to a predetermined voltage source via resistors.

[Claim 4]

The electronic circuit according to Claim 1, wherein said first coil is inductively coupled to said second coils of a plurality of said second substrate.

[Claim 5]

The electronic circuit according to Claim 1 or 2, wherein said second substrate further includes a receiver circuit that receives signals only for a predetermined cyclic period.